

**PART I Authorization to Operate**

- A. The permittee is authorized to operate Class V Injection Wells, at the facility described in the permit application and in the cover page of this permit, in accordance with the provisions set forth in this permit
- B. This permit and the authorization to inject shall remain in effect until the expiration date stated on the cover page of this permit. If the permittee desires to continue injection past the expiration date of this permit, the permittee shall request a permit reissuance at least 180 days prior to expiration of this permit.

**PART II Construction Requirements**

- A. Injection Well Requirements
  - 1. The permittee shall inject only the sodium permanganate solution as described in the permit application.
  - 2. The permittee shall provide a means of sampling the injection fluid when requested by ADEM.

- B. Modifications

Approval of the Alabama Department of Environmental Management (ADEM) shall be obtained prior to modification of any injection well or supporting surface. Modification shall mean any action that will change the configuration of the wells beneath the surface, the methods of monitoring injection, or will result in injection of a fluid or compound not specifically authorized by this permit.

**PART III Monitoring and Operating Requirements**

- A. Injection Compound

The permittee shall not inject any substance that is defined as hazardous or toxic by Federal or State laws or regulations or any substance not identified in the application for this permit.

- B. Monitoring Wells

The permittee shall sample groundwater monitoring wells as specified in the permit application.

- C. Operation

The injection wells operated under this permit shall function properly. Should the injection well fail to function properly, the permittee shall take corrective action, to include cessation of injection, as required by ADEM.

## **PART IV      Records, Reports, & Submittals**

### **A.      Records**

1.      The permittee shall retain all records concerning the data used to complete the permit application, the operation of the wells, and the nature and composition of pollutants injected; to include records of the calibration of instruments, meters and gauges, quality control records, and recordings from continuous monitoring instrumentation; until at least three years after the closure of well(s).
2.      When requested by ADEM, the permittee shall deliver copies of any of the records maintained in accordance with this permit.

### **B.      Reports**

1.      The permittee shall submit to ADEM written confirmation of all injections of sodium permanganate solution which occur, including the initial injection. The written confirmation shall be submitted no later than thirty (30) days after the material is injected and shall include the information listed below:
  - a)      The date of the injection.
  - b)      The amount of fluid injected.
  - c)      The location(s) of the injection.
2.      The permittee shall submit to ADEM written notification of any subsequent injections which are to occur after the initial injection of sodium permanganate solution. The written notification shall be submitted at least thirty (30) days prior to the subsequent injections and shall include the information listed below:
  - a)      The date of the proposed injection.
  - b)      The amount of sodium permanganate solution proposed for injection.
  - c)      The location(s) for the proposed injection.
3.      The permittee shall report to ADEM any of the following:
  - a)      Any planned action which will change the use of the injection wells, will result in injection of a material different from that authorized by this permit, will change the method of operations of any injection well, or will change the method of the monitoring of well operations or injected compounds.
  - b)      Any planned transfer of ownership of all or part of the permitted facility.
  - c)      Any relevant facts of which the permittee becomes aware which should have been submitted in a permit application and any corrections to data previously submitted in a permit application.

4. The permittee shall submit to ADEM ground water monitoring reports on a semi annual basis in accordance with the permit application. The permittee shall submit groundwater monitoring reports no later than 28 days after the reporting period. Each report shall include as a minimum:
  - a) The date and exact place of sampling;
  - b) The complete chain of custody forms for all samples collected; and
  - c) The results of each analysis performed.
5. Other Submittals

Studies, engineering reports, plans and specifications, plugging and abandonment plans, logging reports, and other technical documents submitted to comply with this permit shall be prepared by or under the supervision of qualified persons defined by Rule 6-8-.13 of the UIC Regulations of the ADEM.

#### **PART V Plugging and Abandonment**

The permittee shall perform any abandonment and closure actions that may be required by ADEM to remove a threat to groundwater quality or to the health of persons which is caused by the injection activity.

#### **PART VI Permit Modification, Revocation, Suspension, and Termination**

- A. ADEM may impose emergency additional conditions to this permit when necessary to protect waters of the state from pollution. These conditions may include suspension of the permit to inject and shall remain in effect until the permit is modified, revoked, suspended or terminated in accordance with Rules 6-8-.12(a)3-5 and 6-8-.12(f) of the UIC Regulations of the ADEM.
- B. Non-emergency permit modification, revocation, suspension, and termination actions shall be accomplished in accordance with ADEM Administrative Code Rule 335-6-8.

#### **PART VII General Provisions**

- A. The permittee shall comply with all provisions of the UIC Regulations of the ADEM and shall comply with all provisions of this permit and shall reduce or halt injection if needed to maintain compliance with the permit and regulations.
- B. The permittee shall comply with all applicable Federal and State hazardous waste management regulations.

- C. The permittee shall allow members of the ADEM staff to:
1. Access property and records of the permittee for purposes of inspection.
  2. Collect samples of the injected fluids, process and wastewater streams associated with the permitted injection wells.
  3. Collect samples from any monitoring wells.
  4. Obtain copies of records upon request.
- D. The permittee shall immediately take all reasonable steps to minimize or correct any adverse environmental impact resulting from the operation of the permitted injection wells.
- E. This permit does not convey any property rights of any sort, or any exclusive privilege.
- F. The filing of a request by the permittee for a permit modification, revocation, and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.
- G. Any noncompliance with this permit constitutes a violation of the Alabama Water Pollution Control Act and/or the Underground Injection Control Regulations and is grounds for enforcement action such as permit termination, revocation, modification; or denial of a permit renewal application.
- H. Injection to waters of the state, which in this case is groundwater, in accordance with this permit shall not result in the exceedance of a Maximum Contaminant Level (MCL) in groundwater as established by the Environmental Protection Agency. Injection to groundwater, in accordance with this permit shall not result in a violation of a surface water quality standard.

ADEM Permit Rationale

Date: November 30, 2009

Prepared by: Joe Kelly

Permit Applicant Name: Beazer East, Inc.-attention Robert S. Markwell, One Oxford Centre, Suite 3000, Pittsburg, PA 15219

Facility Name: Koppers Industries, Inc. Facility

Location: 1415 Louisville Street  
Montgomery  
Montgomery County, Alabama  
Lat: N 32.397400/W -86.317700  
Town 16N, Range 17 E, Section 1

UIC Permit Number ALSI9951002

Draft Permit is: Initial Registration / New Use

Injection Description: injection of sodium permanganate solution to aid in the remediation of existing groundwater contamination.

Discussion: Standard permit drafted.

1. No hazardous injection
2. Groundwater monitoring included as proposed in the permit application